

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/890,729A
Source: IFW/6
Date Processed by STIC: 5/23/05

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005
TIME: 09:28:25

Input Set : A:\A-579B.ST25.txt
Output Set: N:\CRF4\05232005\I890729A.raw

3 <110> APPLICANT: YOSHINAGA, STEVEN KIYOSHI
5 <120> TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN IMMUNE RESPONSE.
7 <130> FILE REFERENCE: A-579B
9 <140> CURRENT APPLICATION NUMBER: US 09/890,729A
10 <141> CURRENT FILING DATE: 2001-08-03
12 <150> PRIOR APPLICATION NUMBER: PCT US00/01871
13 <151> PRIOR FILING DATE: 2000-01-27
15 <150> PRIOR APPLICATION NUMBER: 09/264,527
16 <151> PRIOR FILING DATE: 1999-03-08
18 <150> PRIOR APPLICATION NUMBER: 09/244,448
19 <151> PRIOR FILING DATE: 1999-02-03
21 <160> NUMBER OF SEQ ID NOS: 37
23 <170> SOFTWARE: PatentIn version 3.2
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 600
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus musculus
31 <220> FEATURE:
32 <221> NAME/KEY: CDS
33 <222> LOCATION: (1)..(600)
35 <400> SEQUENCE: 1
36 atg aag ccg tac ttc tgc cgt gtc ttt gtc ttc tgc cta atc aga 48
37 Met Lys Pro Tyr Phe Cys Arg Val Phe Val Phe Cys Phe Leu Ile Arg
38 1 5 10 15
40 ctt tta aca gga gaa atc aat ggc tcg gcc gat cat agg atg ttt tca 96
41 Leu Leu Thr Gly Glu Ile Asn Gly Ser Ala Asp His Arg Met Phe Ser
42 20 25 30
44 ttt cac aat gga ggt gta cag att tct tgt aaa tac cct gag act gtc 144
45 Phe His Asn Gly Gly Val Gln Ile Ser Cys Lys Tyr Pro Glu Thr Val
46 35 40 45
48 cag cag tta aaa atg cga ttg ttc aga gag aga gaa gtc ctc tgc gaa 192
49 Gln Gln Leu Lys Met Arg Leu Phe Arg Glu Arg Glu Val Leu Cys Glu
50 50 55 60
52 ctc acc aag acc aag gga agc gga aat gcg gtg tcc atc aag aat cca 240
53 Leu Thr Lys Thr Lys Gly Ser Gly Asn Ala Val Ser Ile Lys Asn Pro
54 65 70 75 80
56 atg ctc tgt cta tat cat ctg tca aac aac agc gtc tct ttt ttc cta 288
57 Met Leu Cys Leu Tyr His Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
58 85 90 95
60 aac aac cca gac agc tcc cag gga agc tat tac ttc tgc agc ctg tcc 336
61 Asn Asn Pro Asp Ser Ser Gln Gly Ser Tyr Tyr Phe Cys Ser Leu Ser
62 100 105 110
64 att ttt gac cca cct cct ttt caa gaa agg aac ctt agt gga gga tat 384

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005

TIME: 09:28:25

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF4\05232005\I890729A.raw

65	Ile	Phe	Asp	Pro	Pro	Pro	Phe	Gln	Glu	Arg	Asn	Leu	Ser	Gly	Gly	Tyr	
66	115						120							125			
68	ttg	cat	att	tat	gaa	tcc	cag	ctc	tgc	tgc	cag	ctg	aag	ctc	tgg	cta	432
69	Leu	His	Ile	Tyr	Glu	Ser	Gln	Leu	Cys	Cys	Gln	Leu	Lys	Leu	Trp	Leu	
70	130						135						140				
72	ccc	gta	ggg	tgt	gca	gct	ttc	gtt	gtg	gta	ctc	ctt	ttt	gga	tgc	ata	480
73	Pro	Val	Gly	Cys	Ala	Ala	Phe	Val	Val	Val	Leu	Leu	Phe	Gly	Cys	Ile	
74	145						150						155			160	
76	ctt	atc	atc	tgg	ttt	tca	aaa	aag	aaa	tac	gga	tcc	agt	gtg	cat	gac	528
77	Leu	Ile	Ile	Trp	Phe	Ser	Lys	Lys	Lys	Tyr	Gly	Ser	Ser	Val	His	Asp	
78							165				170			175			
80	cct	aat	agt	gaa	tac	atg	ttc	atg	gcg	gca	gtc	aac	aca	aac	aaa	aag	576
81	Pro	Asn	Ser	Glu	Tyr	Met	Phe	Met	Ala	Ala	Val	Asn	Thr	Asn	Lys	Lys	
82							180				185			190			
84	tct	aga	ctt	gca	ggt	gtg	acc	tca								600	
85	Ser	Arg	Leu	Ala	Gly	Val	Thr	Ser									
86			195			200											
89	<210>	SEQ	ID	NO:	2												
90	<211>	LENGTH:	200														
91	<212>	TYPE:	PRT														
92	<213>	ORGANISM:	Mus	musculus													
94	<400>	SEQUENCE:	2														
96	Met	Lys	Pro	Tyr	Phe	Cys	Arg	Val	Phe	Val	Phe	Cys	Phe	Leu	Ile	Arg	
97	1				5				10					15			
100	Leu	Leu	Thr	Gly	Glu	Ile	Asn	Gly	Ser	Ala	Asp	His	Arg	Met	Phe	Ser	
101					20				25				30				
104	Phe	His	Asn	Gly	Gly	Val	Gln	Ile	Ser	Cys	Lys	Tyr	Pro	Glu	Thr	Val	
105					35				40				45				
108	Gln	Gln	Leu	Lys	Met	Arg	Leu	Phe	Arg	Glu	Arg	Glu	Val	Leu	Cys	Glu	
109					50				55				60				
112	Leu	Thr	Lys	Thr	Lys	Gly	Ser	Gly	Asn	Ala	Val	Ser	Ile	Lys	Asn	Pro	
113	65				70				75					80			
116	Met	Leu	Cys	Leu	Tyr	His	Leu	Ser	Asn	Asn	Ser	Val	Ser	Phe	Phe	Leu	
117					85				90					95			
120	Asn	Asn	Pro	Asp	Ser	Ser	Gln	Gly	Ser	Tyr	Tyr	Phe	Cys	Ser	Leu	Ser	
121					100				105					110			
124	Ile	Phe	Asp	Pro	Pro	Phe	Gln	Glu	Arg	Asn	Leu	Ser	Gly	Gly	Tyr		
125					115				120					125			
128	Leu	His	Ile	Tyr	Glu	Ser	Gln	Leu	Cys	Cys	Gln	Leu	Lys	Leu	Trp	Leu	
129					130				135				140				
132	Pro	Val	Gly	Cys	Ala	Ala	Phe	Val	Val	Val	Leu	Leu	Phe	Gly	Cys	Ile	
133	145						150						155			160	
136	Leu	Ile	Ile	Trp	Phe	Ser	Lys	Lys	Lys	Tyr	Gly	Ser	Ser	Val	His	Asp	
137					165				170					175			
140	Pro	Asn	Ser	Glu	Tyr	Met	Phe	Met	Ala	Ala	Val	Asn	Thr	Asn	Lys	Lys	
141					180				185					190			
144	Ser	Arg	Leu	Ala	Gly	Val	Thr	Ser									
145			195			200											
148	<210>	SEQ	ID	NO:	3												

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005

TIME: 09:28:25

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF4\05232005\I890729A.raw

149 <211> LENGTH: 200
 150 <212> TYPE: PRT
 151 <213> ORGANISM: Mus musculus
 153 <400> SEQUENCE: 3

155 Met Lys Pro Tyr Phe Cys Arg Val Phe Val Phe Cys Phe Leu Ile Arg
 156 1 5 10 15
 159 Leu Leu Thr Gly Glu Ile Asn Gly Ser Ala Asp His Arg Met Phe Ser
 160 20 25 30
 163 Phe His Asn Gly Gly Val Gln Ile Ser Cys Lys Tyr Pro Glu Thr Val
 164 35 40 45
 167 Gln Gln Leu Lys Met Arg Leu Phe Arg Glu Arg Glu Val Leu Cys Glu
 168 50 55 60
 171 Leu Thr Lys Thr Lys Gly Ser Gly Asn Ala Val Ser Ile Lys Asn Pro
 172 65 70 75 80
 175 Met Leu Cys Leu Tyr His Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
 176 85 90 95
 179 Asn Asn Pro Asp Ser Ser Gln Gly Ser Tyr Tyr Phe Cys Ser Leu Ser
 180 100 105 110
 183 Ile Phe Asp Pro Pro Phe Gln Glu Arg Asn Leu Ser Gly Gly Tyr
 184 115 120 125
 187 Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Leu Trp Leu
 188 130 135 140
 191 Pro Val Gly Cys Ala Ala Phe Val Val Val Leu Leu Phe Gly Cys Ile
 192 145 150 155 160
 195 Leu Ile Ile Trp Phe Ser Lys Lys Lys Tyr Gly Ser Ser Val His Asp
 196 165 170 175
 199 Pro Asn Ser Glu Tyr Met Phe Met Ala Ala Val Asn Thr Asn Lys Lys
 200 180 185 190
 203 Ser Arg Leu Ala Gly Val Thr Ser
 204 195 200
 207 <210> SEQ ID NO: 4
 208 <211> LENGTH: 218
 209 <212> TYPE: PRT
 210 <213> ORGANISM: Mus musculus
 212 <400> SEQUENCE: 4

214 Met Thr Leu Arg Leu Leu Phe Leu Ala Leu Asn Phe Phe Ser Val Gln
 215 1 5 10 15
 218 Val Thr Glu Asn Lys Ile Leu Val Lys Gln Ser Pro Leu Leu Val Val
 219 20 25 30
 222 Asp Ser Asn Glu Val Ser Leu Ser Cys Arg Tyr Ser Tyr Asn Leu Leu
 223 35 40 45
 226 Ala Lys Glu Phe Arg Ala Ser Leu Tyr Lys Gly Val Asn Ser Asp Val
 227 50 55 60
 230 Glu Val Cys Val Gly Asn Gly Asn Phe Thr Tyr Gln Pro Gln Phe Arg
 231 65 70 75 80
 234 Ser Asn Ala Glu Phe Asn Cys Asp Gly Asp Phe Asp Asn Glu Thr Val
 235 85 90 95
 238 Thr Phe Arg Leu Trp Asn Leu His Val Asn His Thr Asp Ile Tyr Phe
 239 100 105 110

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005

TIME: 09:28:25

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF4\05232005\I890729A.raw

242 Cys Lys Ile Glu Phe Met Tyr Pro Pro Pro Tyr Leu Asp Asn Glu Arg
 243 115 120 125
 246 Ser Asn Gly Thr Ile Ile His Ile Lys Glu Lys His Leu Cys His Thr
 247 130 135 140
 250 Gln Ser Ser Pro Lys Leu Phe Trp Ala Leu Val Val Val Ala Gly Val
 251 145 150 155 160
 254 Leu Phe Cys Tyr Gly Leu Leu Val Thr Val Ala Leu Cys Val Ile Trp
 255 165 170 175
 258 Thr Asn Ser Arg Arg Asn Arg Leu Leu Gln Val Thr Thr Met Asn Met
 259 180 185 190
 262 Thr Pro Arg Arg Pro Gly Leu Thr Arg Lys Pro Tyr Gln Pro Tyr Ala
 263 195 200 205
 266 Pro Ala Arg Asp Phe Ala Ala Tyr Arg Pro
 267 210 215
 270 <210> SEQ ID NO: 5
 271 <211> LENGTH: 44
 272 <212> TYPE: PRT
 273 <213> ORGANISM: Artificial sequence
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: Synthetic
 278 <400> SEQUENCE: 5
 280 Met Arg Leu Leu Val Ser Cys Tyr Leu Val Cys Cys Asn Val Phe Leu
 281 1 5 10 15
 284 Asn Tyr Phe Cys Pro Pro Pro Ser Gly His Ile Glu Leu Cys Lys Leu
 285 20 25 30
 288 Trp Leu Val Phe Leu Leu Ile Trp Pro Arg Ala
 289 35 40
 292 <210> SEQ ID NO: 6
 293 <211> LENGTH: 966
 294 <212> TYPE: DNA
 295 <213> ORGANISM: Mus musculus
 298 <220> FEATURE:
 299 <221> NAME/KEY: CDS
 300 <222> LOCATION: (1)..(966)
 302 <400> SEQUENCE: 6
 303 atg cag cta aag tgt ccc tgt ttt gtg tcc ttg gga acc agg cag cct 48
 304 Met Gln Leu Lys Cys Pro Cys Phe Val Ser Leu Gly Thr Arg Gln Pro
 305 1 5 10 15
 307 gtt tgg aag aag ctc cat gtt tct agc ggg ttc ttt tct ggt ctt ggt 96
 308 Val Trp Lys Lys Leu His Val Ser Ser Gly Phe Phe Ser Gly Leu Gly
 309 20 25 30
 311 ctg ttc ttg ctg ctg ttg agc agc ctc tgt gct gcc tct gca gag act 144
 312 Leu Phe Leu Leu Leu Ser Ser Leu Cys Ala Ala Ser Ala Glu Thr
 313 35 40 45
 315 gaa gtc ggt gca atg gtg ggc agc aat gtg gtg ctc agc tgc att gac 192
 316 Glu Val Gly Ala Met Val Gly Ser Asn Val Val Leu Ser Cys Ile Asp
 317 50 55 60
 319 ccc cac aga cgc cat ttc aac ttg agt ggt ctg tat gtc tat tgg caa 240
 320 Pro His Arg Arg His Phe Asn Leu Ser Gly Leu Tyr Val Tyr Trp Gln

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005

TIME: 09:28:25

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF4\05232005\I890729A.raw

321	65	70	75	80													
323	atc	gaa	aac	cca	gaa	gtt	tcg	gtg	act	tac	tac	ctg	cct	tac	aag	tct	288
324	Ile	Glu	Asn	Pro	Glu	Val	Ser	Val	Thr	Tyr	Tyr	Leu	Pro	Tyr	Lys	Ser	
325																	95
327	cca	ggg	atc	aat	gtg	gac	agt	tcc	tac	aag	aac	agg	ggc	cat	ctg	tcc	336
328	Pro	Gly	Ile	Asn	Val	Asp	Ser	Ser	Tyr	Lys	Asn	Arg	Gly	His	Leu	Ser	
329																	110
331	ctg	gac	tcc	atg	aag	cag	ggt	aac	ttc	tct	ctg	tac	ctg	aag	aat	gtc	384
332	Leu	Asp	Ser	Met	Lys	Gln	Gly	Asn	Phe	Ser	Leu	Tyr	Leu	Lys	Asn	Val	
333																	125
335	acc	cct	cag	gat	acc	cag	gag	ttc	aca	tgc	cgg	gta	ttt	atg	aat	aca	432
336	Thr	Pro	Gln	Asp	Thr	Gln	Glu	Phe	Thr	Cys	Arg	Val	Phe	Met	Asn	Thr	
337																	140
339	gcc	aca	gag	tta	gtc	aag	atc	ttg	gaa	gag	gtg	gtc	agg	ctg	cgt	gtg	480
340	Ala	Thr	Glu	Leu	Val	Lys	Ile	Leu	Glu	Glu	Val	Val	Arg	Leu	Arg	Val	
341	145																160
343	gca	gca	aac	tcc	agt	aca	cct	gtc	atc	agc	acc	tct	gat	agc	tcc	aac	528
344	Ala	Ala	Asn	Phe	Ser	Thr	Pro	Val	Ile	Ser	Thr	Ser	Asp	Ser	Ser	Asn	
345																	175
347	ccg	ggc	cag	gaa	cgt	acc	tac	acc	tgc	atg	tcc	aag	aat	ggc	tac	cca	576
348	Pro	Gly	Gln	Glu	Arg	Thr	Tyr	Thr	Cys	Met	Ser	Lys	Asn	Gly	Tyr	Pro	
349																	190
351	gag	ccc	aac	ctg	tat	tgg	atc	aac	aca	acg	gac	aat	agc	cta	ata	gac	624
352	Glu	Pro	Asn	Leu	Tyr	Trp	Ile	Asn	Thr	Thr	Asp	Asn	Ser	Leu	Ile	Asp	
353																	205
355	acg	gct	ctg	cag	aat	aac	act	gtc	tac	ttg	aac	aag	ttg	ggc	ctg	tat	672
356	Thr	Ala	Leu	Gln	Asn	Asn	Thr	Val	Tyr	Leu	Asn	Lys	Leu	Gly	Leu	Tyr	
357																	220
359	gat	gta	atc	agc	aca	tta	agg	ctc	cct	tgg	aca	tct	cgt	ggg	gat	gtt	720
360	Asp	Val	Ile	Ser	Thr	Leu	Arg	Leu	Pro	Trp	Thr	Ser	Arg	Gly	Asp	Val	
361	225																240
363	ctg	tgc	tgc	gta	gag	aat	gtg	gct	ctc	cac	cag	aac	atc	act	agc	att	768
364	Leu	Cys	Cys	Val	Glu	Asn	Val	Ala	Leu	His	Gln	Asn	Ile	Thr	Ser	Ile	
365																	255
367	agc	cag	gca	gaa	agt	tcc	act	gga	aat	aac	aca	aag	aac	cca	cag	gaa	816
368	Ser	Gln	Ala	Glu	Ser	Phe	Thr	Gly	Asn	Asn	Thr	Lys	Asn	Pro	Gln	Glu	
369																	260
371	acc	cac	aat	aat	gag	tta	aaa	gtc	ctt	gtc	ccc	gtc	ctt	gct	gta	ctg	864
372	Thr	His	Asn	Asn	Glu	Leu	Lys	Val	Leu	Val	Pro	Val	Leu	Ala	Val	Leu	
373																	275
375	gcg	gca	gca	tcc	gtt	tcc	ttc	atc	ata	tac	aga	cgc	acg	cgt	ccc	912	
376	Ala	Ala	Ala	Ala	Phe	Val	Ser	Phe	Ile	Ile	Tyr	Arg	Arg	Thr	Arg	Pro	
377																	290
379	cac	cga	agc	tat	aca	gga	ccc	aag	act	gta	cag	ctt	gaa	ctt	aca	gac	960
380	His	Arg	Ser	Tyr	Thr	Gly	Pro	Lys	Thr	Val	Gln	Leu	Glu	Leu	Thr	Asp	
381	305																310
383	cac	gcc															315
384	His	Ala															320
388	<210>	SEQ	ID	NO:	7												966

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/890,729A

DATE: 05/23/2005

TIME: 09:28:26

Input Set : A:\A-579B.ST25.txt

Output Set: N:\CRF4\05232005\I890729A.raw

L:1464 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21